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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/080,509	02/25/2002	Olli Piirainen	P 290688	8667
909	7590	11/15/2005	T200052US/MYL/ko	
PILLSBURY WINTHROP SHAW PITTMAN, LLP			EXAMINER	
P.O. BOX 10500			LEE, ANDREW CHUNG CHEUNG	
MCLEAN, VA 22102			ART UNIT	PAPER NUMBER
			2664	

DATE MAILED: 11/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action SummaryApplication No. **10/080,509**

Applicant(s)

PIIRAINEN, OLLI

Examiner

Andrew C. Lee

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 4/25/2002.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the “two consecutive time slot; in a previous time slot; in a following time slot” as disclosed in claims 1,2, 3, 9, 10, 11, respectively for Fig. 6A, 6B and 6C must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

2. The disclosure is objected to because of the following informalities:

The term "burst" was disclosed in claims 1, 2, 3, 9, 10, 11; while the term "pulse" was used in Fig. 6A, 6B and 6C. Clarification is required.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Applicant recites "two consecutive time slots" as disclosed in claim 1, line 6 of page 16. It is not clear and does not disclose explicitly that claim 1 recites the limitation "in a previous time slot" in line 9 of page 16; "in a following time slot" in line 12 of page 16; "in a time slot" in line 15 of page 16; "in a time slot" in line 19 of page 16 referring to which time slot of the two consecutive time slots.

Applicant also recites "two consecutive time slots" as disclosed in claim 2. It is not clear and does not disclose explicitly that claim 2 recites the limitation "in a previous time slot" in line 9 of page 16; "in a following time slot" in line 12 of page 16; "in a time slot" in line 12 of page 16.referring to which time slot of the two consecutive time slots.

Applicant further recites "two consecutive time slots" as disclosed in claim 3. It is not clear and does not disclose explicitly that claim 3 recites the limitation "in a following time slot " in line 9 of page 17; "in a time slot" in line 12 of page 17. referring to which time slot of the two consecutive time slots.

Claim 7 recites the limitation "in each time slot" in lines 2 – 3 of page 17. It is not clear and does not disclose explicitly that the "in each time slot" refers to "in a previous time slot; in a following time slot; or in each time slot of the two consecutive time slots".

Claim 8 recites the limitation "in each time slot" in lines 2 – 3 of page 17. It is not clear and does not disclose explicitly that the "in each time slot" refers to "in a previous time slot; in a following time slot; or in each time slot of the two consecutive time slots".

Applicant recites "two consecutive time slots" as disclosed in claim 9. It is not clear and does not disclose explicitly that claim 9 recites the limitation "receive in a previous time slot" in line 5 of page 18; "receive in a following time slot" in line 8 of page 18; "receive in a time slot" in line 11 of page 18; "receive in a time slot" in line 15 of page 18 referring to which time slot of the two consecutive time slots.

Applicant also recites "two consecutive time slots" as disclosed in claim 10. It is not clear and does not disclose explicitly Claim 10 recites the limitation "receive in a previous time slot" in line 9 of page 18; "receive in a time slot" in line 12 of page 18 referring to which time slot of the two consecutive time slots.

Applicant also recites "two consecutive time slots" as disclosed in claim 11. It is not clear and does not disclose explicitly Claim 11 recites the limitation "in a following time slot" in line 4 of page 19; "in a time slot" in line 7 of page 19 referring to which time slot of the two consecutive time slots.

Claim 15 recites the limitation "in each time slot" in lines 2 – 3 of page 19. It is not clear and does not disclose explicitly that the "in each time slot" refers to "in a

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previous time slot; in a following time slot; or in each time slot of the two consecutive time slots”.

Claim 16 recites the limitation " in each time slot " in lines 2 – 3 of page 19. It is not clear and does not disclose explicitly that the “in each time slot “ refers to “in a previous time slot; in a following time slot; or in each time slot of the two consecutive time slots”.

There is insufficient antecedent basis for this limitation in the claim.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew C. Lee whose telephone number is (571) 272-3131. The examiner can normally be reached on Monday through Friday from 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ACL

Nov 12, 2005


Ajit Patel
Primary Examiner